

# PATENT ABSTRACTS OF JAPAN

(11)Publication number : **54-106488**

(43)Date of publication of application : **21.08.1979**

(51)Int.Cl. **C07D499/18**

(21)Application number : **53-011656** (71)Applicant : **TAISHO PHARMACEUT CO LTD**

(22)Date of filing : **04.02.1978** (72)Inventor : **SODA KAORU  
TOMIZAWA KAZUYUKI  
SAWADA JIRO**

## (54) PURIFICATION FOR D-PENICILLAMINE

### (57)Abstract:

PURPOSE: To obtain a high-purity D-penicillamine, by reacting crude D-penicillamine with acetone in the absence or presence of an organic acid to form D-isopropylidenepenicillamine, which is then hydrolyzed.

CONSTITUTION: Crude D-penicillamine is added to acetone and heated in the absence or presence of an organic acid, e.g. acetic or formic acid at 30°C to reflux temperature to dissolve the D-penicillamine. The solution is filtered, and the filtrate is cooled and concentrated to give D-isopropylidenepenicillamine, which is hydrolyzed with water in the atmosphere of N<sub>2</sub> under refluxing for 30 min, and water is vacuum distilled to afford D-penicillamine crystals. The presence of the organic acid promotes the dissolving of D-penicillamine into acetone, thus reducing the amount of acetone.

## LEGAL STATUS

[Date of request for examination]

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of rejection]

[Date of extinction of right]